

## INTERNATIONAL SEARCH REPORT

Internat Application No

PCT/GB 03/05379

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/7076 A61P25/00 A61K31/197

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	UEEDA M ET AL: "2-Alkoxyadenosines: Potent and selective agonists at the coronary artery A2 adenosine receptor" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 34, 1991, pages 1334-1339, XP002225574 ISSN: 0022-2623 page 1337, column 1, line 22-24, 31-33 compound 3a  --- -/-	1-31



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

22 March 2004

Date of mailing of the international search report

31/03/2004

Name and mailing address of the ISA

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Interns Application No  
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SAWYNOK JANA: "Adenosine receptor activation and nociception" EUROPEAN JOURNAL OF PHARMACOLOGY, vol. 317, no. 1, 17 April 1998 (1998-04-17), pages 1-11, XP002273334 ISSN: 0014-2999 cited in the application page 2, column 1, line 17-23 see conclusion, pg 7 point 5 ---	1-31
Y	BELFRAGE MANS ET AL: "The safety and efficacy of intrathecal adenosine in patients with chronic neuropathic pain" ANESTHESIA AND ANALGESIA, vol. 89, no. 1, July 1999 (1999-07), pages 136-142, XP009027670 ISSN: 0003-2999 See abstract page 141, column 2, line 9-12 ---	1-31
Y	COLLINS S D ET AL: "The effect of GR190178, a selective low-efficacy adenosine A1 receptor agonist, on the treatment of neuropathic hyperalgesia in the rat" BRITISH JOURNAL OF PHARMACOLOGY, vol. 133, no. Proceedings Supplement, May 2001 (2001-05), page 48P XP009027671 Proceedings of the British Pharmacological Society Meeting; Birmingham, UK; December 18-21, 2000 ISSN: 0007-1188 see whole abstract ---	1-31
Y	KAUL P ET AL: "Adenosine agonist of marine origin indicative of two types of adenosinergic receptors" PHARMACOLOGIST 1981 UNITED STATES, vol. 23, no. 3, 1981, page no. 540 XP009027638 abstract --- -/--	1-31

## INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>DATABASE EMBASE 'Online! ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL; 1995 DAN K: "Nerve block therapy and postherpetic neuralgia" Database accession no. EMB-1995373280 XP002273335 abstract &amp; CRITICAL REVIEWS IN PHYSICAL AND REHABILITATION MEDICINE 1995 UNITED STATES, vol. 7, no. 2, 1995, pages 93-112, ISSN: 0896-2960</p>	1-31
A	<p>KÖNIG G M: "Meeresorganismen als Quelle pharmazeutisch bedeutsamer Naturstoffe" DEUTSCHE APOTHEKER ZEITUNG, DEUTSCHER APOTHEKER ZEITUNG, STUTTGART, DE, vol. 132, no. 14, 2 April 1992 (1992-04-02), pages 673-683, XP002255617 ISSN: 0011-9857 page 678, column 3, line 32-42</p>	1-31
A	<p>BHAKUNI D S: "BIOLOGICAL ACTIVITY OF MARINE NUCLEOSIDES AND THEIR ANALOGUES" PROCEEDINGS OF THE INDIAN NATIONAL SCIENCE ACADEMY. PART B BIOLOGICAL SCIENCES, INDIAN NATIONAL SCIENCE ACADEMY, NEW DEHLI, IN, vol. 65, no. PART 2, 1995, pages 97-112, XP001165752 ISSN: 0073-6600 page 98, line 15</p>	1-31
A	<p>BARTLETT R T ET AL: "Synthesis and pharmacological evaluation of a series of analogues of 1-methylisoguanosine" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 24, 1981, pages 947-954, XP002225573 ISSN: 0022-2623 cited in the application see abstract</p>	1-31
A	<p>OJHA LALIT M ET AL: "A simple method for synthesis of spongosine, azaspongosine, and their antiplatelet effects" NUCLEOSIDES AND NUCLEOTIDES, vol. 14, no. 9-10, 1995, pages 1889-1900, XP009027643 ISSN: 0732-8311 see whole document</p>	1-31

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 03/05379

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 11-31  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☒ Claims Nos.: 8-10 (partially)  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

## Continuation of Box I.1

Although claims 11-31 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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## Continuation of Box I.1

Claims Nos.: 11-31

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

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## Continuation of Box I.2

Claims Nos.: 8-10 (partially)

In claim 8, the expression "for the prevention, treatment, or amelioration of inflammatory....." is considered to lack clarity within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT. It is not clear to the skilled person, when taken together with the description what scope of protection is sought. The description (page 4, l. 20-29) provides support for prevention, treatment or amelioration of hyperalgesia caused as a result of inflammatory disease.

Accordingly, the search has thus been restricted to the prevention, treatment or amelioration of hyperalgesia or pain caused as a result of the inflammatory diseases provided in claim 8 and the description (pg 4, l.20-29) or other pain.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.